What is claimed is:

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1. A method for manufacturing the imidesubstituted polymer comprising the steps of:

copolymerization step done by dividing the feed into the Mixture (A) composed of aromatic vinyl monomers, initiators, and chain transfer agents and the Mixture (B) composed of unsaturated dicarboxylic anhydride monomers and solvents, and then charging copolymerization reactors simultaneously with them while adjusting the flow rate of each mixture according to the compositional ratio of the feed, and finally copolymerizing aromatic vinyl monomers and unsaturated dicarboxylic anhydride monomers in the copolymerization reactors;

separation step performed by supplying the polymerized solution discharged from the copolymerization reactors into a separator continuously, and then removing unreacted monomers and solvents sufficiently;

imide substitution step accomplished by supplying from the polymer melt discharged separator the continuously into imide substitution reactors and adding continuously the Mixture (C) composed of primary amines, catalysts for an imide substitution reaction, and solvents at the same time, and then reacting unsaturated dicarboxylic anhydride units in said copolymers with the primary amines; and

devolatilization step done by removing low-molecular-weight volatiles from the polymer solution discharged from the imide substitution reactors in the devolatilizer.

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- 2. The method for manufacturing the imidesubstituted polymer according to claim 1, wherein said aromatic vinyl monomer in the Mixture (A) is selected from the group consisting of styrene, α -methylstyrene, vinyl toluene, t-butylstyrene, chlorostyrene, substituted monomers thereof and mixtures thereof.
- 3. The method for manufacturing the imide-substituted polymer according to claim 1, wherein the amount of said aromatic vinyl monomer in the Mixture (A) is 20 to 60 wt% of the total amount of Mixtures (A) and (B) fed into said copolymerization reactors.
- 4. The method for manufacturing the imide20 substituted polymer according to claim 1, wherein said initiator in the Mixture (A) is selected from the group of organic peroxides having two or more functional groups including 1,1-dibutyl-peroxy-3,3,5-trimethylcyclohexane, 1,1-dibutyl-peroxy-cyclohexane, 2,2-dibutyl-peroxy-butane, 2,2,4-trimethyl-pentyl-2-hydroperoxide, 2,5-dimethyl-2,5-

di-(t-butyl-peroxy) hexane, 2,5-dimethyl-2,5-di-(benzoyl-peroxy) hexane, 1,1-di(t-amyl-peroxy) cyclohexane, 2,2-bis(4,4-di-t-butyl-peroxy-cyclohexyl) propane, ethyl-3,3-di(t-amyl-peroxy) butylate, ethyl-3,3-di(t-butyl-peroxy) butylate, 1,1-bis(t-butyl-peroxy)-3,3,5-trimethyl-cyclohexane, and t-butylperoxy-3,3,5-trimethylhexanoate.

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- 5. The method for manufacturing the imidesubstituted polymer according to claim 1, wherein the amount of said initiator in the Mixture (A) is 0.01 to 0.1 wt% of the total amount of Mixtures (A) and (B) fed into said copolymerization reactors.
- 6. The method for manufacturing the imidesubstituted polymer according to claim 1, wherein said
 unsaturated dicarboxylic anhydride monomer in the Mixture
 (B) is selected from the group consisting of maleic
 anhydride, methylmaleic anhydride, ethylmaleic anhydride,
 phenylmaleic anhydride, citraconic anhydride, aconitic
 anhydride, and mixtures thereof.
 - 7. The method for manufacturing the imide-substituted polymer according to claim 1, wherein the amount of said unsaturated dicarboxylic anhydride monomer in the Mixture (B) is 10 to 30 wt% of the total amount of

Mixtures (A) and (B) fed into said copolymerization reactors.

8. The method for manufacturing the imidesubstituted polymer according to claim 1, wherein said
solvent in the Mixture (B) is selected from the group
consisting of methyl ethyl ketone (MEK), cyclohexanone,
methylisobutyl ketone (MIBK), acetone, dimethyl formamide,
dimethyl sulfoxide, and mixtures thereof.

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- 9. The method for manufacturing the imide-substituted polymer according to claim 1, wherein the amount of said solvent in the Mixture (B) is 20 to 60 wt% of the total amount of Mixtures (A) and (B) fed into said copolymerization reactors.
- 10. The method for manufacturing the imidesubstituted polymer according to claim 1, wherein a temperature of polymerization in said copolymerization step is ranged from 80 to 150 °C.
- 11. The method for manufacturing the imidesubstituted polymer according to claim 1, wherein said
 copolymerization reactors in said copolymerization step
 have one or more reactors consecutively and the

temperature of each reactor is increased gradually within the range of 80 to 150 $^{\circ}\text{C}$.

12. The method for manufacturing the imidesubstituted polymer according to claim 1, wherein the inside of said separator in said separation step has a temperature condition within the range of 150 to 300 °C and a pressure condition within the range of 20 to 200 torr.

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- 13. The method for manufacturing the imidesubstituted polymer according to claim 1, wherein said
 primary amine in the Mixture (C) is selected from the
 group consisting of methylamine, ethylamine, propylamine,
 butylamine, hexylamine, cyclohexylamine, decylamine,
 aniline, toluidine, chlorophenylamine, bromophenylamine,
 and mixtures thereof.
- 14. The method for manufacturing the imide20 substituted polymer according to claim 1, wherein the
 content of said primary amine in the Mixture (C) is
 ranged from 0.5 to 2.0 times in the mole ratio to the
 content of the unsaturated dicarboxylic anhydride units
 in the polymer melt supplied from the separation step.

15. The method for manufacturing the imidesubstituted polymer according to claim 1, wherein said
catalyst for an imide substitution reaction in the
Mixture (C) is selected from the group consisting of
trimethylamine, triethylamine, tributylamine, and
mixtures thereof.

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- 16. The method for manufacturing the imidesubstituted polymer according to claim 1, wherein the
 amount of said catalyst in the Mixture (C) is less than
 10 wt% of the amount of the primary amine in the Mixture
 (C).
- 17. The method for manufacturing the imidesubstituted polymer according to claim 1, wherein the
 amount of said solvent in the Mixture (C) is 0.5 to 3.0
 times of the amount of said solvent in the Mixture (B).
- 18. The method for manufacturing the imide20 substituted polymer according to claim 1, wherein the reaction temperature of said imide substitution step is ranged from 120 to 200 °C.
- 19. The method for manufacturing the imide-25 substituted polymer according to claim 1, wherein the

inside of said devolatilizer in said devolatilization step has a temperature condition within the range of 200 to 350 °C and a pressure condition within the range of 10 to 100 torr.

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20. The method for manufacturing the imide-substituted polymer according to claim 1, wherein the conversion of said unsaturated dicarboxylic anhydride in said copolymerization step is greater than 95 wt%.

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- 21. The method for manufacturing the imidesubstituted polymer according to claim 1, wherein the
 residence time in said copolymerization step is within
 the range of 2.0 to 5.0 hours and the residence time in
 said imide substitution step is within the range of 1.5
 to 4.0 hours.
- 22. The method for manufacturing the imide-substituted polymer according to claim 1, wherein the content of aromatic vinyl homopolymers contained in said imide-substituted polymer manufactured through said devolatilization step is less than 3 wt%.
- 23. An imide-substituted polymer manufactured according to any of Claims 1 through 22.